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| TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i> | Application Number | 09/876,376 |
| | Filing Date | Jun 06, 2001 |
| | First Named Inventor | Douceur |
| | Group Art Unit | 2155 |
| | Examiner Name | ALAM, HOSAIN T |
| Total Number of Pages in This Submission | Attorney Docket Number | MS1-769US |

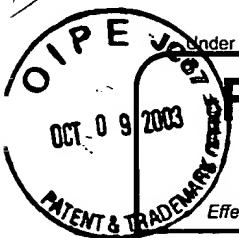
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| <input type="checkbox"/> Fee Attached | <input type="checkbox"/> Drawing(s) Sheets | <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences |
| <input type="checkbox"/> Amendment / Reply | <input type="checkbox"/> Licensing-related Papers | <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) |
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| <input type="checkbox"/> Affidavits/declaration(s) | <input type="checkbox"/> Petition to Convert to a Provisional Application | <input type="checkbox"/> Status Letter |
| <input type="checkbox"/> Extension of Time Request | <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address | <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Form PTO-1449; reference copies (37); return receipt postcard |
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| SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT | |
|--|--------------------------------------|
| Firm or Individual name | Allan T. Sponseller, Reg. No. 38,318 |
| Signature | |
| Date | 10/7/03 |

| CERTIFICATE OF MAILING | |
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| Signature | |
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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0.00

Complete if Known

Application Number 09/876,376
Filing Date Jun 06, 2001
First Named Inventor Douceur
Examiner Name ALAM, HOSAIN T
Art Unit 2155
Attorney Docket No. MS1-769US

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☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

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Deposit
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Number
Deposit
Account
Name

12-0769

Lee & Hayes, PLLC

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description | Fee Paid |
|-------------------------------|-------------------------------|------------------------|----------|
| 1001 770 | 2001 385 | Utility filing fee | |
| 1002 340 | 2002 170 | Design filing fee | |
| 1003 530 | 2003 265 | Plant filing fee | |
| 1004 770 | 2004 385 | Reissue filing fee | |
| 1005 160 | 2005 80 | Provisional filing fee | |
| SUBTOTAL (1) (\$) | | | |

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

| | Extra Claims | Fee from below | Fee Paid |
|--------------------|--------------|----------------|----------|
| Total Claims | -20** = | X | |
| Independent Claims | -3** = | X | |
| Multiple Dependent | | | |

| Large Entity Fee Code (\$) | Small Entity Fee Code (\$) | Fee Description |
|-------------------------------|-------------------------------|--|
| 1202 18 | 2202 9 | Claims in excess of 20 |
| 1201 86 | 2201 43 | Independent claims in excess of 3 |
| 1203 290 | 2203 145 | Multiple dependent claim, if not paid |
| 1204 86 | 2204 43 | ** Reissue independent claims over original patent |
| 1205 18 | 2205 9 | ** Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) (\$) | | |

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

| Fee Code (\$) | Fee Code (\$) | Fee Description | Fee Paid |
|---------------|---------------|--|----------|
| 1051 130 | 2051 65 | Surcharge - late filing fee or oath | |
| 1052 50 | 2052 25 | Surcharge - late provisional filing fee or cover sheet | |
| 1053 130 | 1053 130 | Non-English specification | |
| 1812 2,520 | 1812 2,520 | For filing a request for ex parte reexamination | |
| 1804 920* | 1804 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 1,840* | 1805 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 110 | 2251 55 | Extension for reply within first month | |
| 1252 420 | 2252 210 | Extension for reply within second month | |
| 1253 950 | 2253 475 | Extension for reply within third month | |
| 1254 1,480 | 2254 740 | Extension for reply within fourth month | |
| 1255 2,010 | 2255 1,005 | Extension for reply within fifth month | |
| 1401 330 | 2401 165 | Notice of Appeal | |
| 1402 330 | 2402 165 | Filing a brief in support of an appeal | |
| 1403 290 | 2403 145 | Request for oral hearing | |
| 1451 1,510 | 1451 1,510 | Petition to institute a public use proceeding | |
| 1452 110 | 2452 55 | Petition to revive - unavoidable | |
| 1453 1,330 | 2453 665 | Petition to revive - unintentional | |
| 1501 1,330 | 2501 665 | Utility issue fee (or reissue) | |
| 1502 480 | 2502 240 | Design issue fee | |
| 1503 640 | 2503 320 | Plant issue fee | |
| 1460 130 | 1460 130 | Petitions to the Commissioner | |
| 1807 50 | 1807 50 | Processing fee under 37 CFR 1.17(q) | |
| 1806 180 | 1806 180 | Submission of Information Disclosure Stmt | |
| 8021 40 | 8021 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 770 | 2809 385 | Filing a submission after final rejection (37 CFR 1.129(a)) | |
| 1810 770 | 2810 385 | For each additional invention to be examined (37 CFR 1.129(b)) | |
| 1801 770 | 2801 385 | Request for Continued Examination (RCE) | |
| 1802 900 | 1802 900 | Request for expedited examination of a design application | |

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$)

SUBMITTED BY

(Complete (if applicable))

Name (Print/Type) Allan T. Sponseller Registration No. 38,318 Telephone (509) 324-92

Signature [Signature] Date 10/7/03

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Serial No.09/876,376
Filing Date Jun 06, 2001
Confirmation No.8992
Inventorship Douceur
Applicant Microsoft Corporation
Attorney's Docket No. MSI-769US
Title: Locating Potentially Identical Objects Across Multiple Computers Based On
Stochastic Partitioning Of Workload



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INFORMATION DISCLOSURE STATEMENT

References -- See Attached Form PTO-1449


REMARKS

The citations listed, copies attached, are submitted in compliance with the duty of disclosure defined in 37 CFR §1.56. The Examiner is requested to make these citations of official record in this application.

Respectfully Submitted,

Date: 10/7/03

By:


Allan T. Sponseller
Reg. No. 38,318

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| Application Number | 09/876,376 |
| Filing Date | Jun 06, 2001 |
| First Named Inventor | Douceur |
| Group Art Unit | 2155 |
| Examiner Name | ALAM, HOS. |
| Attorney Docket Number | MS1-769US |

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| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i> | | | Application Number | 09/876,376 | |
| | | | Filing Date | Jun 06, 2001 | |
| | | | First Named Inventor | Douceur | |
| | | | Group Art Unit | 2155 | |
| | | | Examiner Name | ALAM, HOSAIN T | |
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| Examiner Initials ¹ | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | | E. Adar and B. Huberman, "Free Riding on Gnutella," Xerox PARC Technical Report, pages 1-22, August 2000. | |
| | | R. Anderson, "The Eternity Service," PRAGO-CRYPT, pages 242-252, October 1996. | |
| | | T. Anderson, M. Dahlin, J. Neefe, D. Patterson, D. Roselli, and R. Wang, "Serverless Network File Systems," 15th Symposium on Operating Systems Principles, pages 109-126, December 1995. | |
| | | W. Bolosky, J. Douceur, D. Ely, M. Theimer, "Feasibility of a Serverless Distributed File System Deployed on an Existing Set of Desktop PCs", Proceedings of the International Conference on Measurement and Modeling of Computer Systems, pages 34-43, June 17-21, 2000. | |
| | | W. Bolosky, S. Corbin, D. Goebel, and J. Douceur, "Single Instance Storage in Windows@ 2000," Proceedings of the 4th USENIX Windows Systems Symposium, pages 13-24, August 2000. | |
| | | G. Cabri, A. Corradi, F. Zambonelli, "Experience of Adaptive Replication in Distributed File Systems", 22nd IEEE EUROMICRO, 10 pages, September 1996. | |
| | | M. Castro and B. Liskov, "Practical Byzantine Fault Tolerance," Proceedings of the Third Symposium on Operating Systems Design and Implementation, 14 pages, February 1999. | |
| | | M. Castro and B. Liskov, "Proactive Recovery in a Byzantine-Fault-Tolerant System," 4th Symposium on Operating Systems Design and Implementation, pages 273-287, October 2000. | |
| | | I. Clarke, O. Sandberg, B. Wiley, and T. Hong, "Freenet: A Distributed Anonymous Information Storage and Retrieval System," ICSI Workshop on Design Issues in Anonymity and Unobservability, 21 pages, July 2000. | |
| | | J. Douceur and W. Bolosky, "A Large-Scale Study of File-System Contents," SIGMETRICS, pages 59-70, May 1999. | |
| | | L. Fan, P. Cao, J. Almeida, and A. Broder, "Summary Cache: A Scalable Wide-Area Web Cache Sharing Protocol", ACM SIGCOMM, pages 254-265, 1998. | |

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| | | | First Named Inventor | Douceur |
| | | | Group Art Unit | 2155 |
| | | | Examiner Name | ALAM, HOSAIN T |
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| | | A. Goldberg and P. Yianilos, "Towards an Archival Interemory," IEEE International Forum on Research and Technology Advances in Digital Libraries, pages 147-156, April 1998. | |
| | | J. Howard, M. Kazar, S. Menees, D. Nichols, M. Satyanarayanan, R. Sidebotham, and M. West, "Scale and Performance in a Distributed File System," ACM Transactions on Computer Systems, pages 51-81, Feb. 1988. | |
| | | J. Kistler and M. Satyanarayanan, "Disconnected Operation in the Coda File System," ACM Transactions on Computer Systems, Vol. 10, No. 1, pages 3-25, February 1992. | |
| | | J. Kubiawicz et al., "OceanStore: An Architecture for Global-Scale Persistent Storage," Proceedings of the Ninth International Conference on Architectural Support for Programming Languages and Operating Systems, 12 pages, Nov. 2000. | |
| | | E. Lee and C. Thekkath, "Petal: Distributed Virtual Disks," Seventh International Conference on Architectural Support for Programming Languages and Operating Systems", pages 84-92, October 1996. | |
| | | D. Mazières, M. Kaminsky, M. F. Kaashoek, and E. Witchel, "Separating Key Management from File System Security", 17th ACM Symposium on Operating Systems Principles, pages 124-139, December 1999. | |
| | | D.L. McCue, M.C. Little, "Computing Replica Placement in Distributed Systems", IEEE Second Workshop on Replicated Data, pages 58-61, November 1992. | |
| | | M. K. McKusick, W. N. Joy, S. J. Leffler, and R. S. Fabry, "A Fast File System for Unix," ACM Transactions on Computer Systems, Vol. 2, No. 3, pages 181-197, August 1984. | |
| | | The OceanStore Project web pages, http://oceanstore.cs.berkeley.edu/info/overview.html , 2 pages, last modified July 8, 2002. | |
| | | C. Plaxton, R. Rajaraman, and A. Richa, "Accessing Nearby Copies of Replicated Objects in a Distributed Environment", Proceedings of the 9th Annual ACM Symposium on Parallel Algorithms and Architectures, pages 311-320, 1997. | |
| | | C. Plaxton, R. Rajaraman, and A. Richa, "Accessing Nearby Copies of Replicated Objects in a Distributed Environment", Theory of Computing Systems, pages 32:241-280, 1999. | |

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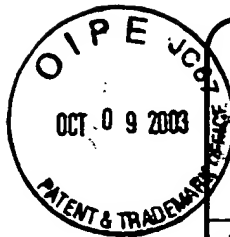
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 4

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Application Number 09/876,376
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|-----------------------------------|--------------------------|---|----------------|
| | | R. T. Reich and D. Albee, "S.M.A.R.T. Phase-II," Number WP-9803-001, Maxtor Corporation, 3 pages, February 1998. | |
| | | J. D. Saltzer and M. D. Schroeder, "The Protection of Information in Computer Systems," Proceedings of the IEEE 63(9), pages 1278-1308, September 1975. | |
| | | R. Sandberg, D. Goldberg, S. Kleiman, D. Walsh, and B. Lyon, "Design and Implementation of the Sun Network Filesystem," Summer USENIX Conference, pages 119-130, June 1985. | |
| | | A. Sweeny, D. Doucette, W. Hu, C. Anderson, M. Nishimoto, and G. Peck, "Scalability in the XFS File System," USENIX Annual Technical Conference, 15 pages, 1996. | |
| | | C. Thekkath, T. Mann, and E. Lee, "Frangipani: A Scalable Distributed File System," 16th ACM Symposium on Operating Systems Principles, pages 224-237, 1997. | |
| | | W. Vogels, "File system usage in Windows NT 4.0," 17th ACM Symposium on Operating Systems Principles, pages 93-109, December 1999. | |
| | | J. Wylie, M. Bigrigg, J. Strunk, G. Ganger, H. Kiliççöte, and P. Khosla, "Survivable Information Storage Systems," IEEE Computer, pages 33(8):61-68, August 2000. | |
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